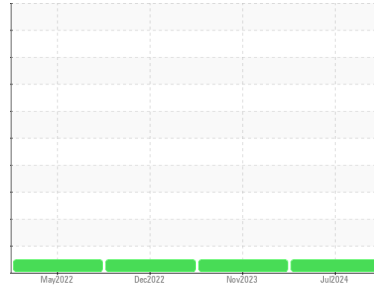




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**LINE 2 EXTRUDER**  
 Component  
**Gearbox**  
 Fluid  
**SHELL OMALA 460 (115 LTR)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2    |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number      | Client Info |             |            | <b>WC0965980</b>   | WC0879201   | WC0766053   |
| Sample Date        | Client Info |             |            | <b>16 Jul 2024</b> | 14 Nov 2023 | 01 Dec 2022 |
| Machine Age        | hrs         | Client Info |            | <b>0</b>           | 0           | 0           |
| Oil Age            | hrs         | Client Info |            | <b>0</b>           | 0           | 0           |
| Oil Changed        | Client Info |             |            | <b>N/A</b>         | N/A         | N/A         |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| CONTAMINATION |           | method | limit/base | current    | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water         | WC Method |        | >0.2       | <b>NEG</b> | NEG      | NEG      |

| WEAR METALS |     | method        | limit/base | current      | history1 | history2 |
|-------------|-----|---------------|------------|--------------|----------|----------|
| PQ          |     | ASTM D8184*   |            | <b>0</b>     | 0        | 0        |
| Iron        | ppm | ASTM D5185(m) | >200       | <b>11</b>    | 18       | 14       |
| Chromium    | ppm | ASTM D5185(m) | >10        | <b>0</b>     | 0        | 0        |
| Nickel      | ppm | ASTM D5185(m) | >10        | <b>0</b>     | <1       | <1       |
| Titanium    | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Silver      | ppm | ASTM D5185(m) |            | <b>0</b>     | <1       | 0        |
| Aluminum    | ppm | ASTM D5185(m) | >25        | <b>&lt;1</b> | 0        | <1       |
| Lead        | ppm | ASTM D5185(m) | >50        | <b>0</b>     | <1       | 5        |
| Copper      | ppm | ASTM D5185(m) | >200       | <b>&lt;1</b> | <1       | <1       |
| Tin         | ppm | ASTM D5185(m) | >10        | <b>0</b>     | 0        | 0        |
| Antimony    | ppm | ASTM D5185(m) | >5         | <b>0</b>     | 0        | 0        |
| Vanadium    | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Beryllium   | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Cadmium     | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |

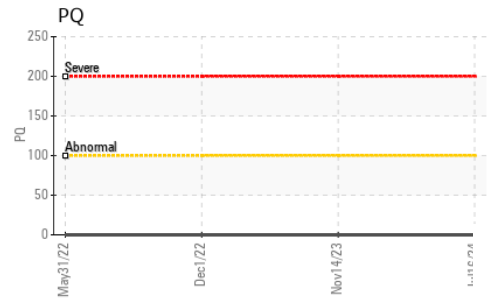
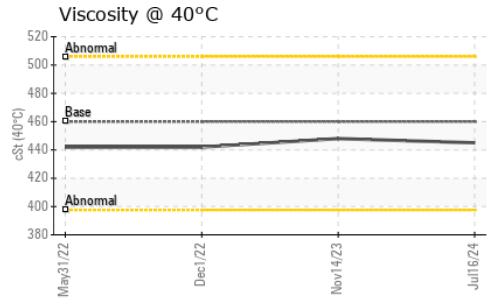
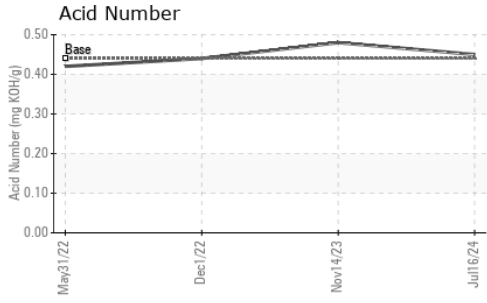
| ADDITIVES  |     | method        | limit/base | current      | history1 | history2 |
|------------|-----|---------------|------------|--------------|----------|----------|
| Boron      | ppm | ASTM D5185(m) | 6.2        | <b>2</b>     | 4        | 6        |
| Barium     | ppm | ASTM D5185(m) | 0.0        | <b>0</b>     | <1       | 0        |
| Molybdenum | ppm | ASTM D5185(m) | 0          | <b>0</b>     | 0        | 0        |
| Manganese  | ppm | ASTM D5185(m) |            | <b>0</b>     | 0        | 0        |
| Magnesium  | ppm | ASTM D5185(m) | 0          | <b>0</b>     | 0        | 0        |
| Calcium    | ppm | ASTM D5185(m) | 0.0        | <b>2</b>     | 4        | 1        |
| Phosphorus | ppm | ASTM D5185(m) | 290        | <b>297</b>   | 266      | 303      |
| Zinc       | ppm | ASTM D5185(m) | 3.8        | <b>2</b>     | 2        | 2        |
| Sulfur     | ppm | ASTM D5185(m) | 8167       | <b>11647</b> | 15365    | 10947    |
| Lithium    | ppm | ASTM D5185(m) |            | <b>&lt;1</b> | <1       | <1       |

| CONTAMINANTS |     | method        | limit/base | current      | history1 | history2 |
|--------------|-----|---------------|------------|--------------|----------|----------|
| Silicon      | ppm | ASTM D5185(m) | >50        | <b>7</b>     | 3        | 5        |
| Sodium       | ppm | ASTM D5185(m) |            | <b>&lt;1</b> | 0        | <1       |
| Potassium    | ppm | ASTM D5185(m) | >20        | <b>&lt;1</b> | 0        | <1       |

| FLUID DEGRADATION |          | method     | limit/base | current     | history1 | history2 |
|-------------------|----------|------------|------------|-------------|----------|----------|
| Acid Number (AN)  | mg KOH/g | ASTM D974* | 0.44       | <b>0.45</b> | 0.48     | 0.44     |



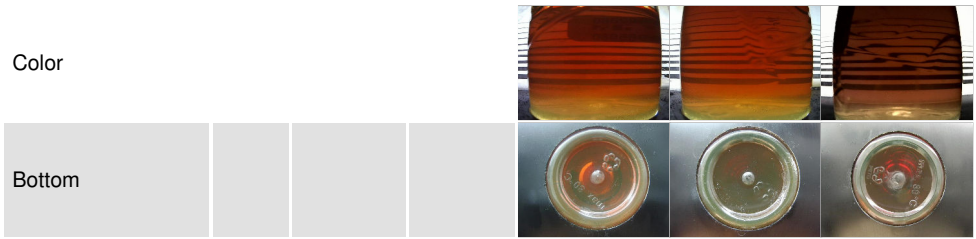
# OIL ANALYSIS REPORT



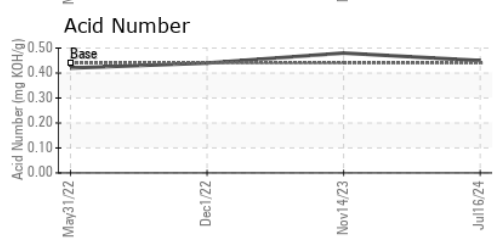
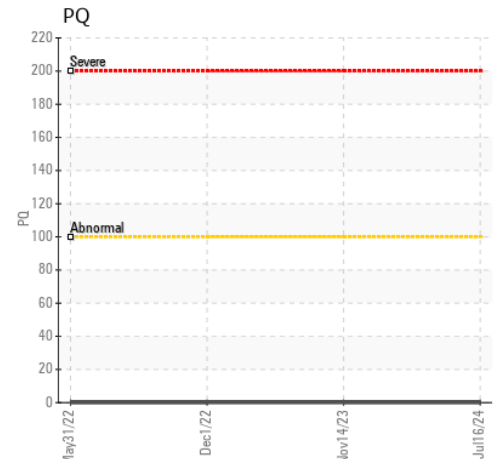
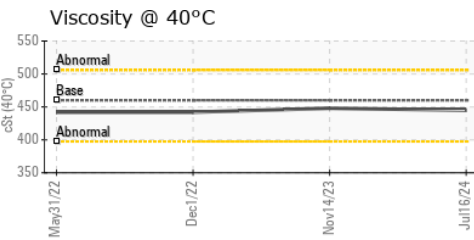
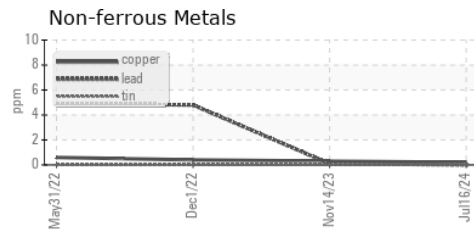
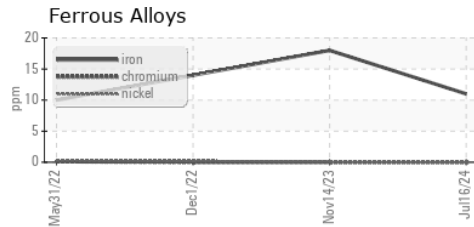
| VISUAL           | method | limit/base | current | history1     | history2 |
|------------------|--------|------------|---------|--------------|----------|
| White Metal      | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE     |
| Yellow Metal     | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE     |
| Precipitate      | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE     |
| Silt             | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE     |
| Debris           | scalar | Visual*    | NONE    | <b>VLITE</b> | NONE     |
| Sand/Dirt        | scalar | Visual*    | NONE    | <b>NONE</b>  | NONE     |
| Appearance       | scalar | Visual*    | NORML   | <b>NORML</b> | NORML    |
| Odor             | scalar | Visual*    | NORML   | <b>NORML</b> | NORML    |
| Emulsified Water | scalar | Visual*    | >0.2    | <b>NEG</b>   | NEG      |
| Free Water       | scalar | Visual*    |         | <b>NEG</b>   | NEG      |

| FLUID PROPERTIES | method | limit/base    | current | history1   | history2 |
|------------------|--------|---------------|---------|------------|----------|
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 460     | <b>445</b> | 448      |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
|---------------|--------|------------|---------|----------|----------|



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0965980      **Received** : 17 Jul 2024  
**Lab Number** : **02648536**      **Tested** : 18 Jul 2024  
**Unique Number** : 5814088      **Diagnosed** : 18 Jul 2024 - Wes Davis  
**Test Package** : IND 2

**Trusscore**  
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 CA N0G 2P0  
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 aydink@trusscore.com  
 T: (226)753-5999  
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.